GCTTCCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCA GAAAGATGAGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTTGCTG AACGCATTTACTGTCACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTA GCAATATGACAATTGAATGCAAATTCCCAGTAGAAAAACAATTAGACCTGGC TGCACTAATTGTCTATTGGGAAATGGAGGATAAGAACATTATTCAATTTGTGC GGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATCACAGA TGTGAAATTGCAGGATGCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGT GCCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCCATACAACAAAATCA ACCAAAGAATTTTGGTTGTGGATCCAGTCACCTCTGAACATGAACTGACATGT CAGGCTGAGGCCTACCCCAAGGCCGAAGTCATCTGGACAAGCAGTGACCATC TTTTCAATGTGACCAGCACACTGAGAATCAACACAACAACTAATGAGATTTT CTACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTG GTCATCCCAGGTAATATTCTGAATGTGTCCATTAAAATATGTCTAACACTGTC CCCTAGCACCTAGCATGATGTCTGCCTATCATAGTCATTCAGTGATTGTTGAA TAAATGAATGAATAACACTATGTTTACAAAATATATCCTAATTCCTCAC CTCCATTCATCCAAACCATATTGTTACTTAATAAACATTCAGCAGATATTTAT GGAATAAAAAAAAAAAAAAAAAAA

CGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCAGAAAGA TGAGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTTGCTGAACGCATT TACTGTCACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGAC AATTGAATGCAAATTCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGT CTATTGGGAAATGGAGGATAAGAACATTATTCAATTTGTGCATGGAGAGGAAG ACCTGAAGGTTCAGCATAGTAGCTACAGACAGAGGGCCCGGCTGTTGAAGGAC CAGCTCTCCCTGGGAAATGCTGCACTTCAGATCACAGATGTGAAATTGCAGGAT GCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGTGCCGACTACAAGCGAAT TACTGTGAAAGTCAATGCCCCATACAACAAAATCAACCAAAGAATTTTGGTTGT GGATCCAGTCACCTCTGAACATGAACTGACATGTCAGGCTGAGGGCTACCCCA AGGCCGAAGTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTGGTAAGACC ACCACCACTACTTCCAAGAGAGAGAGAGCTTTTCAATGTGACCAGCACACT GAGAATCAACAACAACTAATGAGATTTTCTACTGCACTTTTAGGAGATTAGA TCCTGAGGAAAACCATACAGCTGAATTGGTCATCCCAGAACTACCTCTGGCACA TCCTCCAAATGAAAGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTT GAAAAATGTGGCATCCAAGATACAAACTCAAAGAAGCAAAGTGATACACATTT GGAGGAGACGTAATCCAGCATTGGAACTTCTGATCTTCAAGCAGGGATTCTCA GCCCGTGGGATGCAGGCAATGTGGGACTTAAAAGGCCCCAAGCACTGAAAATG GAACCTGGCGAAAGCAGAGGAGGAGAATGAAGAAGATGGAGTCAAACAGGG AGCCTGGAGGGAGACCTTGATACTTTCAAATGCCTGAGGGGCTCATCGACGCC TGTGACAGGGAGAAAGGATACTTCTGAACAAGGAGCCTCCAAGCAAATCATCC ATTGCTCATCCTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGTCAGTTCCT GCAGAAGTGCCCTTTGCCTCCACTCAATGCCTCAATTTGTTTTCTGCATGACTGA TGAGTCTGTGAGGTCTTCTTGTCATGTGAGTGTGGTTGTGAATGATTTCTTTTGA AGATATATTGTAGTAGATGTTACAATTTTGTCGCCAAACTAAACTTGCTGCTTAA

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292 secreted (245 amino acids)

Signal/IgV/IgC/hydrophilic tail
(a) (b) (c) (d)
Ig cysteines in large bold

MRIFAVFIFMTYWHLLNA (signal)

FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKN IIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQD AGVYRCMISYGGADYKRITVKVNAPY (1gv) NKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKT TTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENHTAEL VIP (IgC)

GNILNVSIKICLTLSPST (hydrophilic tail)

FIGURE 3

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292 membrane (290 amino acids)

Signal/IgV/IgC/transmembrane (underlined) plus cytoplasmic

Ig cysteines in large bold

MRIFAVFIFMTYWHLLNA (signal)

FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKN IIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQD AGVYRCMISYGGADYKRITVKVNAPY (18v) NKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKT TTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENHTAEL

ELPLAHPPNER<u>THLVILGAILLCLGVALTFIF</u>RLRKGRMMDVKKC GIQDTNSKKQSDTHLEET (transmembrane plus cytoplasmic)

AGATAGTTCCCAAAACATGAGGATATTTGCTGGCATTATATTCACAGCCTGC TGTCACTTGCTACGGGCGTTTACTATCACGGCTCCAAAGGACTTGTACGTG GTGGAGTATGGCAGCAACGTCACGATGGAGTGCAGATTCCCTGTAGAACG GGAGCTGGACCTGCGTTGCGTTAGTGGTGTACTGGGAAAAGGAAGATGAGC AAGTGATTCAGTTTGTGGCAGGAGGAGGAGGACCTTAAGCCTCAGCACAGCA ACTTCAGGGGGAGAGCCTCGCTGCCAAAGGACCAGCTTTTGAAGGGAAAT GCTGCCCTTCAGATCACAGACGTCAAGCTGCAGGACGCAGGCGTTTACTGC TGCATAATCAGCTACGGTGGTGCGGACTACAAGCGAATCACGCTGAAAGTC AATGCCCCATACCGCAAAATCAACCAGAGAATTTCCGTGGATCCAGCCACTT CTGAGCATGAACTAATATGTCAGGCCGAGGGTTATCCAGAAGCTGAGGTAA CTTCCCGGACAGAGGGGATGCTTCTCAATGTGACCAGCAGTCTGAGGGTCA ACGCCACAGCGAATGATGTTTTCTACTGTACGTTTTGGAGATCACAGCCAG TCATTGTAGTGTCCACGGTCCTCCTCTTCTTGAGAAAACAAGTGAGAATGCT AGATGTGGAGAAATGTGGCGTTGAAGATACAAGCTCAAAAAACCGAAATGA TACACAATTCGAGGAGACGTAAGCAGTGTTGAACCCTCTGATCGTCGATTG GCAGCTTGTGGTCTGTGAAAGAAGGGCCCATGGGACATGAGTCCAAAGAC TCAAGATGGAACCTGAGGGAGAGAACCAAGAAAGTGTTGGGAGAGGAGCC TGGAACAACGGACATTTTTTCCAGGGAGACACTGCTAAGCAAGTTGCCCAT CAGTCGTCTTGGGAAATGGATTGAGGGTTCCTGGCTTAGCAGCTGGTCCTT GCACAGTGACCTTTTCCTCTGCTCAGTGCCGGGATGAGAGATGGAGTCATG AGTGTTGAAGAATAAGTGCCTTCTATTTATTTTGAGTCTGTGTTCTCACTT TGGGCATGTAATTATGACTGGTGAATTCTGACGACATGATAGATCTTAAGAT GTAGTCACCAAACTCAACTGCTGCTTAGCATCCTCCGTAACTACTGATACAA GCAGGGAACACAGAGGTCACCTGCTTGGTTTGACAGGCTCTTGCTGTCTGA CTCAAATAATCTTTATTTTTCAGTCCTCAAGGCTCTTCGATAGCAGTTGTTCT **GTATCAGCCTTATAGGTGTCAGGTATAGCACTCAACATCTCATCTCATTACA** ATAGCAACCCTCATCACCATAGCAACAGCTAACCTCTGTTATCCTCACTTCA TAGCCAGGAAGCTGAGCGACTAAGTCACTTGCCCACAGAGTATCAGCTCTC AGATTTCTGTTCTTCAGCCACTGTCCTTTCAGGATAGAATTTGTCGTTAAGAA TTGTGCACTGTGCCTCTGAGCATAAAGATGTACGCCGGAGTACCGGT CGGACATGTTTATGTGTTTAAATACTCAGAGAAATGTTCATTAACAAGGAG CTTGCATTTTAGAGACACTGGAAAGTAACTCCAGTTCATTGTCTAGCATTAC ATTTACCTCATTTGCTATCCTTGCCATACAGTCTCTTGTTCTCCATGAAGTGT CATGAATCTTGTTGAATAGTTCTTTTATTTTTTAAATGTTTCTATTTAAATGATA TTGACATCTGAGGCGATAGCTCAGTTGGTAAAACCCTTTCCTCACAAGTGTG AAACCCTGAGTCTTATCCCTAGAACCCACATAAAAAACAGTTGCGTATGTTT GTGCATGCTTTTGATCCCAGCACTAGGGAGGCAGAGGCAGATCCTG AGCTCTCATTGACCACCCAGCCTAGCCTACATGGTTAGCTCCAGGCCTACA CACACACACACACACACACACACTGTACTCATAGACCTAAGTGCACC

CTCAGAATGGTCCCCAAGACAAGAAGAAGAAGAAAAACACCAAACCAGCTCTA TTCCCTCAGCCTATCCTCTACTCCTTCCTAGAAGCAACTACTATTGTTTTT ттеттеттеттеттеттеттеттестсеттестсетте CTTCCTTCCTTTCTTTCTTTCTTTTTTTCTGTCTATCTGTACCTAAA GATATTTATGCTGCTTCCAGAATGGATCTAAAGCTCTTTGTTTCTAGGTTTTC TCCCCCATCCTTCTAGGCATCTCTCACACTGTCTAGGCCAGACACCATGTCT GCTGCCTGAATCTGTAGACACCATTTATAAAGCACGTACTCACCGAGTTTGT ATTTGGCTTGTTCTGTGTCTGATTAAAGGGAGACCATGAGTCCCCAGGGTA CACTGAGTTACCCCAGTACCAAGGGGGAGCCTTGTTTGTGTCTCCATGGCA GAAGCAGGCCTGGAGCCATTTTGGTTTCTTCCTTGACTTCTCCAAACACAG ACGCCTCACTTGCTCATTACAGGTTCTCCTTTGGGAATGTCAGCATTGCTCC TTGACTGCTGCCCTGGAAGGAGCCCATTAGCTCTGTGTGAGCCCTTG ACAGCTACTGCCTCCCTTACCACAGGGGCCTCTAAGATACTGTTACCTAGA GGTCTTGAGGATCTGTGTTCTCTGGGGGGGAGGAAAGGAGGAGGAACCCAG AACTTTCTTACAGTTTTCCTTGTTCTGTCACATGTCAAGACTGAAGGAACAG GCTGGGCTACGTAGTGAGATCCTGTCTCAAAGGAAAGACGAGCATAGCCGA ACCCCGGTGGAACCCCCTCTGTTACCTGTTCACACAAGCTTATTGATGAGT CTCATGTTAATGTCTTGTTTGTATGAAGTTTAAGAAAATATCGGGTTGGGCAA CACATTCTATTCATTTATTTGAAATCTTAATGCCATCTCATGGTGTTGG ATTGGTGTGGCACTTTATTCTTTTGTGTTGTGTATAACCATAAATTTTATTTTG AAAAAAAAAAA

Figure 5 (continued)

MRIFAGIIFTACCHLLRAFTITAPKDLYVVEYGSNVTMECRFPVERELDLLALVVYWEKEDEQVIQFVAGEE DLKPQHSNFRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCIISYGGADYKRITLKVNAPYRKINQRISV DPATSEHELICQAEGYPEAEVIWTNSDHQPVSGKRSVTTSRTEGMLLNVTSSLRVNATANDVFYCTFWR SQPGQNHTAELIIPELPATHPPQNRTHWVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGVEDTSSKNRN DTQFEET.

Figure 6

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MRIFAGIIFTACCHLLRAFTITAPKDLYVVEYGSNVTMECRFPVERELDLLALVVYWEKE 60 MRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEME HLL AFT+T PKDLYVVEYGSN+T+EC+FPVE++LDL AL+VYWE E MRIFA IF 487-4 1 m87-4 1

DEQVIQFVAGEEDLKPQHSNFRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCIISYGG 120 mb7.4 61

DKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGG 120 D+ +IQFV GEEDLK QHS++R RA L KDQL GNAALQITDVKLQDAGVY C+ISYGG WB7.4 61

m87·4 121 adykritlkvnapyrkinqri-svdpatsehelicqaegypeaeviwtnsdhqpvsgkrs 179

467-4121 ADYKRITVKVNAPYNKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTT 180 ADYKRIT+KVNAPY KINQRI VDP TSEHEL CQAEGYP+AEVIWT+SDHQ +SGK +

nβ∂.4 180 VTTSRTEGMLLNVTSSLRVNATANDVFYCTFWRSQPGQNHTAELIIPELPATHPPQNRTH 239

67.4 181 TINSKREEKLFNVTSTLRINTTINEIFYCTFRRLDPEENHTAELVIPELPLAHPPNERTH 240 T S+ E L NVTS+LR+N T N++FYCTF R P +NHTAEL+IPELP HPP RTH

~67.4 240 WVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGVEDTSSKNRNDTQFEET 290 V+LG+ILL L V T + LRK RM+DV+KCG++DT+SK ++DT

467.4 241 LVILGAILLCLGVALTFIFRLRKG-RMMDVKKCGIQDTNSKKQSDTHLEET 290

Figure 7

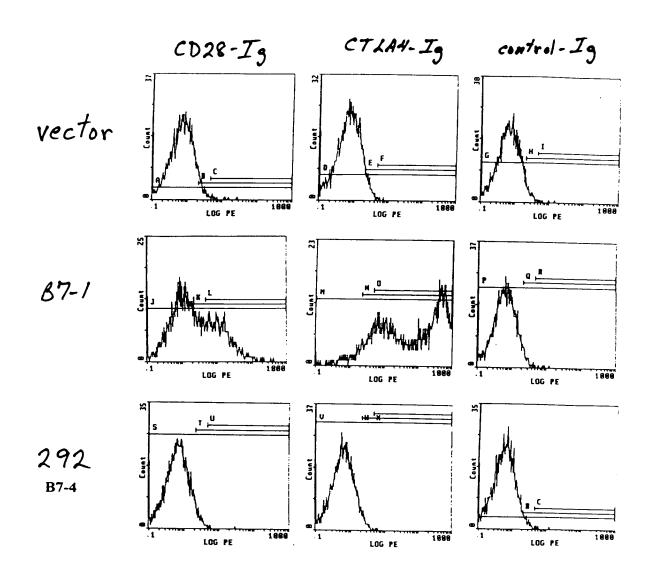


Figure 8

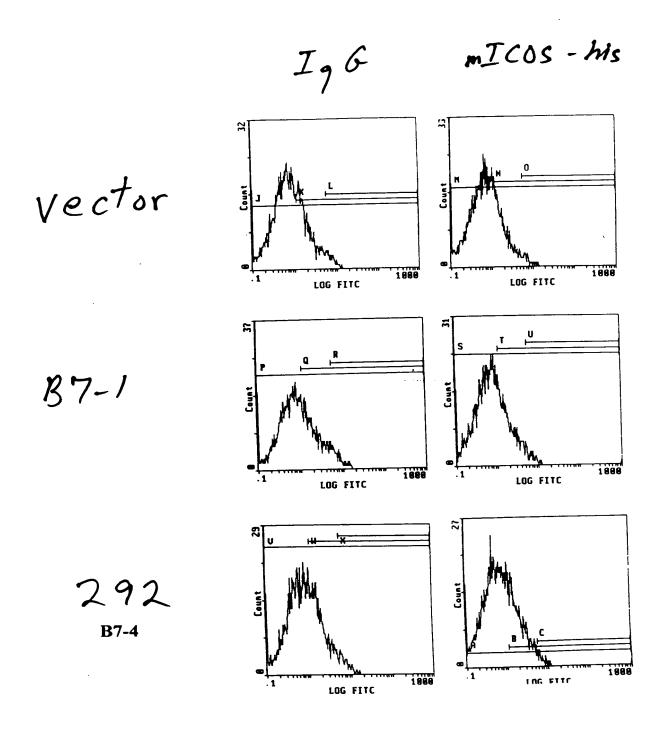


Figure 9

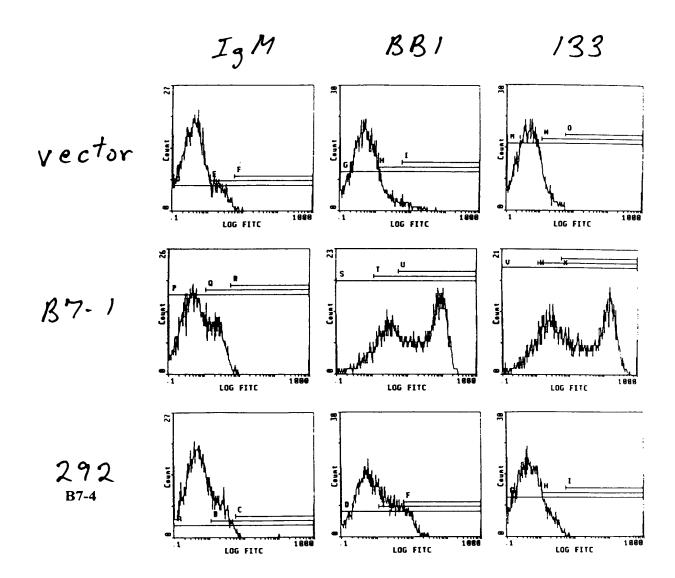
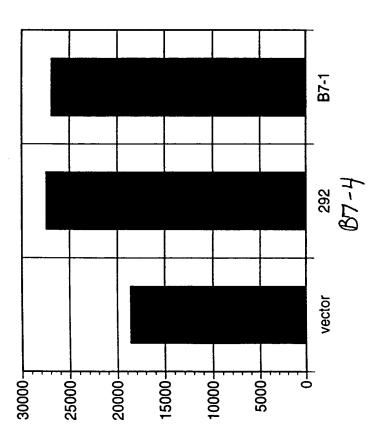


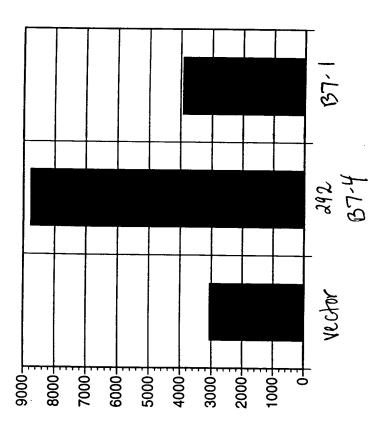
Figure 10



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